

Amendments to the Claims

The listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A fuel cartridge connectable to a fuel cell comprising:
an outer casing encasing a first ~~and an~~ inner flexible liner containing a first fuel for the fuel cell, wherein said first ~~the~~ inner flexible liner comprises an insert disposed inside or on said first ~~the~~ inner flexible liner to facilitate the transport of said first fuel from the cartridge through a fuel outlet to the fuel cell, wherein said insert is different than said first fuel and said fuel outlet, and wherein said first inner flexible liner isolates said first fuel from a portion of said outer casing.
2. (Currently Amended) The fuel cartridge of claim 1, wherein ~~the~~ said first inner flexible liner comprises at least one wall, and wherein the insert is integral with the at least one wall of ~~the~~ said first inner flexible liner.
3. (Previously Presented) The fuel cartridge of claim 2, wherein the insert comprises a plurality of ribs.
4. (Original) The fuel cartridge of claim 1, wherein the insert comprises a plurality of ribs.
5. (Original) The fuel cartridge of claim 4, wherein some of the ribs are substantially rigid.
6. (Original) The fuel cartridge of claim 4, wherein some of the ribs are flexible.
7. (Original) The fuel cartridge of claim 4, wherein the ribs are flexible.
8. (Original) The fuel cartridge of claim 1, wherein the insert is a foam insert.

9. (Original) The fuel cartridge of claim 1, wherein the insert comprises a mesh.
10. (Withdrawn) The fuel cartridge of claim 1, wherein the insert comprises a plurality of particles.
11. (Withdrawn) The fuel cartridge of claim 10, wherein the particles comprise jacks.
12. (Withdrawn) The fuel cartridge of claim 10, wherein the particles comprise spheres.
13. (Withdrawn) The fuel cartridge of claim 10, wherein the particles are connected to each other.
14. (Currently Amended) The fuel cartridge of claim 10, wherein ~~the~~ said fuel outlet comprises a shut-off valve and said first inner flexible liner is connected to [[a]] the shut-off valve and the first fuel is transported through the shut-off valve to the fuel cell.
15. (Currently Amended) The fuel cartridge of claim 1, wherein ~~the~~ said fuel outlet comprises a shut-off valve and said first inner flexible liner is connected to [[a]] the shut-off valve and the first fuel is transported through the shut-off valve to the fuel cell.
16. (Original) The fuel cartridge of claim 15, wherein the shut-off valve is disposed within a nozzle connected to the outer casing.
17. (Original) The fuel cartridge of claim 1, wherein the outer casing is substantially rigid.
18. (Original) The fuel cartridge of claim 1, wherein the outer casing has an internal structural support.

19. (Original) The fuel cartridge of claim 1, wherein the outer casing is flexible.
20. (Original) The fuel cartridge of claim 1, wherein the outer casing is sealed.
21. (Original) The fuel cartridge of claim 1, wherein the outer casing has an open structure.
22. (Original) The fuel cartridge of claim 21, wherein the open structure is covered with a gas permeable, liquid impermeable membrane.
23. (Original) The fuel cartridge of claim 21, wherein the open structure is covered with a liquid absorbent filler material.
24. (Original) The fuel cartridge of claim 21, wherein the outer casing is a mesh.
25. (Original) The fuel cartridge of claim 21, wherein the outer casing defines at least one hole thereon.
26. (Original) The fuel cartridge of claim 25, wherein the hole is covered with a gas permeable, liquid impermeable membrane.
27. (Original) The fuel cartridge of claim 25, wherein the hole is covered with a liquid absorbent filler material.
28. (Original) The fuel cartridge of claim 25, wherein the hole is covered with a lid.

29. (Original) The fuel cartridge of claim 1, wherein the cartridge further comprises a first unidirectional relief valve disposed on the outer casing, said first relief valve intermittently allows air to enter the cartridge to prevent a partial vacuum from forming within the cartridge.

30. (Original) The fuel cartridge of claim 29, wherein the first relief valve is covered by a gas permeable, liquid impermeable membrane.

31. (Original) The fuel cartridge of claim 29, wherein the first relief valve is covered by a liquid retaining filler material.

32. (Currently Amended) The fuel cartridge of claim 29, wherein the first relief valve is a poppet [[-type]] valve.

33. (Currently Amended) The fuel cartridge of claim 1, wherein the first fuel is converted to electrical current in the fuel cell and at least one of the gas and liquid byproducts produced in the fuel cell is transported to an interior space between the outer casing and ~~the~~ said first inner flexible liner in the cartridge.

34. (Original) The fuel cartridge of claim 33, wherein the cartridge further comprises a second unidirectional relief valve disposed on the outer casing, said second relief valve intermittently allows gas from inside the cartridge to vent.

35. (Original) The fuel cartridge of claim 34, wherein the second relief valve is covered by a gas permeable, liquid impermeable membrane.

36. (Original) The fuel cartridge of claim 34, wherein the second relief valve is covered by a liquid absorbent filler material.

37. (Currently Amended) The fuel cartridge of claim 34, wherein the second relief valve is a poppet [[-type]] valve.

38. (Original) The fuel cartridge of claim 1, wherein the cartridge further comprises an energy-storing device to compress ~~the~~ said first inner flexible liner.

39. (Original) The fuel cartridge of claim 38, wherein the energy-storing device is a compressed spring.

40. (Original) The fuel cartridge of claim 38, wherein the energy-storing device is a compressed foam.

41. (Original) The fuel cartridge of claim 38, wherein the energy-storing device is compressed gas.

42. (Original) The fuel cartridge of claim 41, wherein the compressed gas is butane, n-butane or propane.

43. (Original) The fuel cartridge of claim 1, further connectable to a fuel refilling container.

44. (Currently Amended) The fuel cartridge of claim 1, wherein ~~the~~ said first inner flexible liner is compressed by an external energy-storing device.

45. (Original) The fuel cartridge of claim 1, wherein a movable wall is slidingly disposed within the outer casing.

46. (Original) The fuel cartridge of claim 45, wherein the movable wall comprises a seal.

47. (Original) The fuel cartridge of claim 46, wherein the seal comprises a wiper that presses against the outer casing to form a seal with the outer casing.

48. (Original) The fuel cartridge of claim 45, wherein the outer casing is coated with a friction reduction film.

49. (Original) The fuel cartridge of claim 48, wherein the friction reduction film is polytetrafluoroethylene.

50. (Currently Amended) The fuel cartridge of claim 1, wherein ~~the~~ said first inner flexible liner is colored.

Please cancel claims 51-110 without prejudice.

Please add the following new claims:

111. (new) A fuel cartridge connectable to a fuel cell comprising:

an outer casing encasing a first inner flexible liner containing a first fuel for the fuel cell, wherein said first inner flexible liner comprises an insert in contact with said first fuel to facilitate the transport of said first fuel from the cartridge through a fuel outlet to the fuel cell, wherein said insert is different than said first fuel and said fuel outlet, and wherein said first inner flexible liner isolates said first fuel from a portion of said outer casing.

112. (new) The fuel cartridge of claim 111, wherein the insert is located on or inside the first inner flexible liner.

113. (new) The fuel cartridge of claim 111, wherein the insert comprises at least one rib, a foam, a mesh or at least one particle.

114. (new) The fuel cartridge of claim 113, wherein the insert is located inside or on the first inner flexible liner.

115. (new) The fuel cartridge of claim 114, wherein the insert is integral to said first inner flexible liner.

116. (new) The fuel cartridge of claim 111, wherein the outer casing has internal structural support.

117. (new) The fuel cartridge of claim 111, wherein the outer casing is sealed.

118. (new) The fuel cartridge of claim 111, wherein the outer casing has an open structure.

119. (new) The fuel cartridge of claim 118, wherein the outer casing is covered by a gas permeable, liquid impermeable membrane or an absorbent material.

120. (new) The fuel cartridge of claim 113 further comprises a relief valve disposed on the outer casing.

121. (new) The fuel cartridge of claim 120, wherein the relief valve is covered by a gas permeable, liquid impermeable membrane or an absorbent material.

122. (new) The fuel cartridge of claim 120, wherein the relief valve is opened when the pressure inside the outer casing reaches a predetermined pressure.

123. (new) The fuel cartridge of claim 122, wherein the relief valve is opened to prevent a partial pressure from forming within the cartridge.

124. (new) The fuel cartridge of claim 122, wherein the relief valve is opened to release pressure within the cartridge.

125. (new) The fuel cartridge of claim 120, wherein the relief valve is a poppet valve.

126. (new) The fuel cartridge of claim 111, wherein an interior space between the outer casing and the first inner flexible liner stores a byproduct from the fuel cell.

127. (new) The fuel cartridge of claim 111, wherein the first inner flexible liner is compressed by an energy storing device.

128. (new) The fuel cartridge of claim 127, wherein a movable wall is disposed between the energy storing device and the first inner flexible liner.